

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 June 2004 (17.06.2004)

PCT

(10) International Publication Number
WO 2004/051274 A1

(51) International Patent Classification⁷: **G01N 33/543**,
27/327, C12Q 1/68

(21) International Application Number:
PCT/CN2003/000329

(22) International Filing Date: 6 May 2003 (06.05.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02153665.1 3 December 2002 (03.12.2002) CN

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

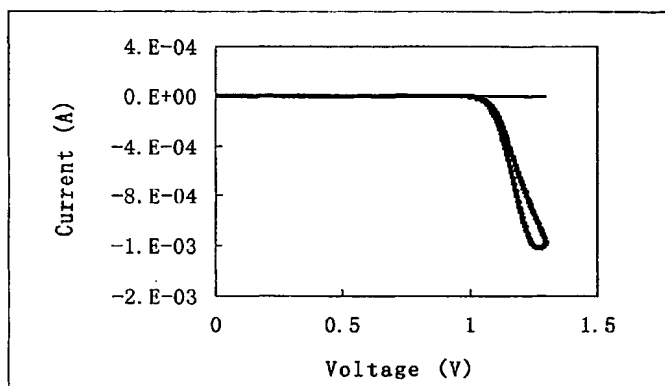
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: **AHEMICALLY AMPLIFIED ELECTROCHEMICAL DETECTION OF AFFINITY REACTION**



(57) **Abstract:** This invention relates generally to the field of electrochemistry. In particular, the invention provides a method for assaying an analyte, using, *inter alia*, a reactant capable of binding and/or reacting with an analyte to be analyzed on an oxide electrode and a reducing agent not capable of being oxidized directly by said electrode to generate reduced electrochemically active molecule that participates in oxidation-reduction reactions repeatedly to generate an amplified electrochemical signal to determine presence and/or amount of said analyte in said sample.

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